

Trimester 1 Review

Topics:

1. Atoms, Molecules, Elements, Compounds (AMEC)
2. Characteristics of Life (all 6!)
3. Plant vs. Animal Cells
4. Photosynthesis & Respiration

Directions: Write a definition (short or long) for each.

Atom =

Molecule =

Element =

Compound =

Directions: Draw 2-3 in each box
(don't worry if they could be in more than one box)

Atom

Element

Molecule

Compound

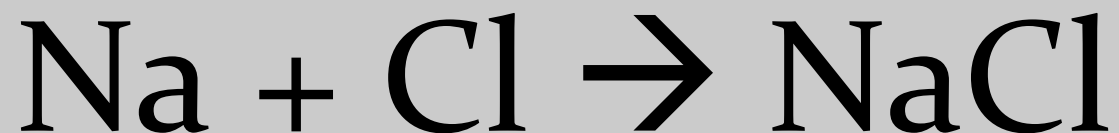
Draw one that is both an
ATOM and an ELEMENT

Draw one that is both an
ELEMENT and a MOLECULE

Draw one that is both a
MOLECULE and a COMPOUND

Draw one that is both an
ATOM and a MOLECULE

Chemical Reactions (Quick Check)



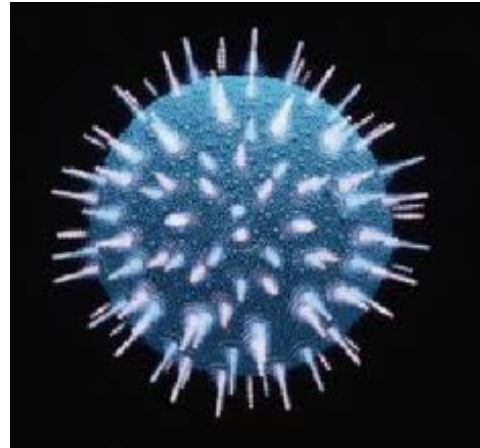
Use the chemical equation above to:

1. CIRCLE the reactant(s)
2. Put a BOX around the product(s)
3. Write one word or phrase for the ARROW: _____

Characteristics of Life



- All living things must have **ALL SIX**.
- If even one is missing it **CANNOT** be considered alive!
- List them on the next side



CHARACTERISTICS OF LIFE

(requirements for something to be considered living)

1.

2.

3.

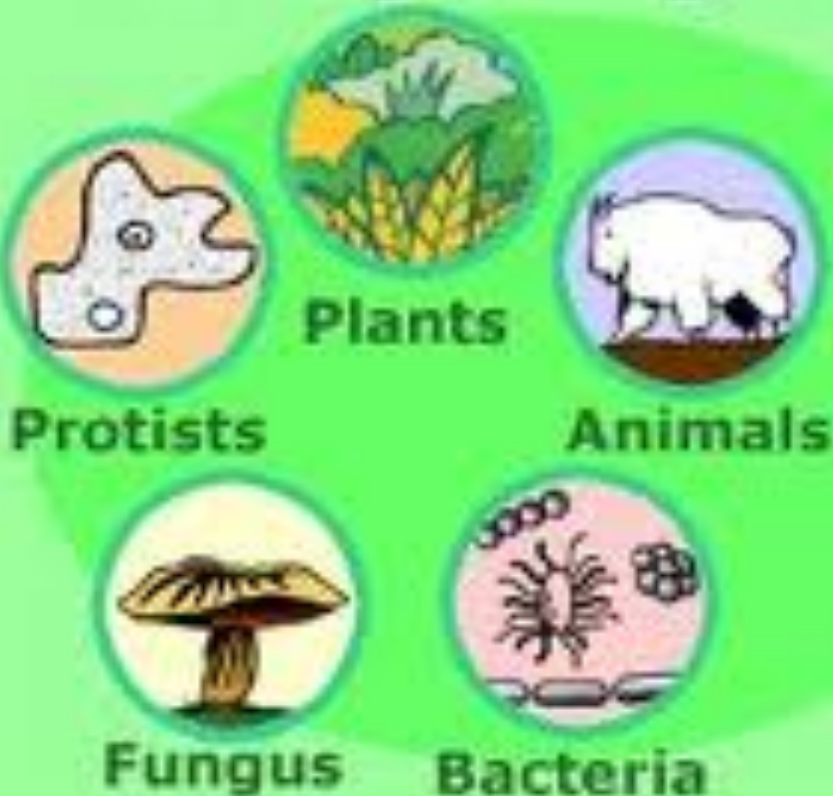
4.

5.

6.

Living vs. Non-Living Examples

Living Things



Non Living Things



Plant Cells or Animal Cells?

Put a “P” by Plant Cell descriptions

Put an “A” by Animal Cell descriptions

1. ____ No Pattern

2. ____ Random

3. ____ Organized

4. ____ Recognizable Shape

5. ____ “Blob” Shape

6. ____ “Neat”

7. ____ Stacked

8. ____ “Messy”

9. ____ Odd Shape

10. ____ Rows & Columns

What THREE cell parts that can be found ONLY in plant cells?
What do they do (what is their job)?

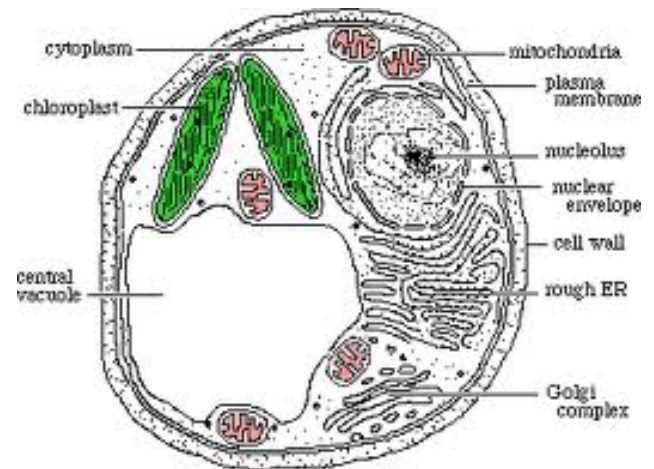
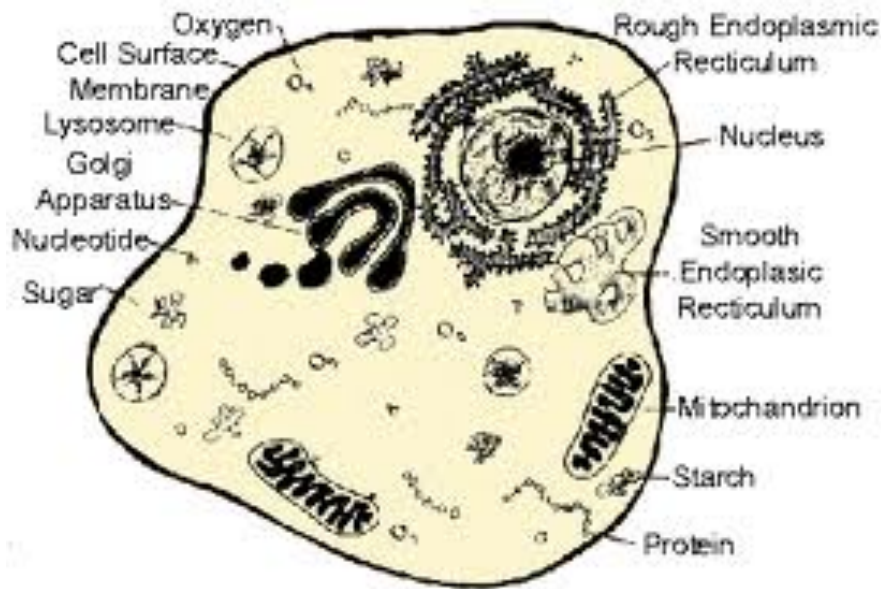
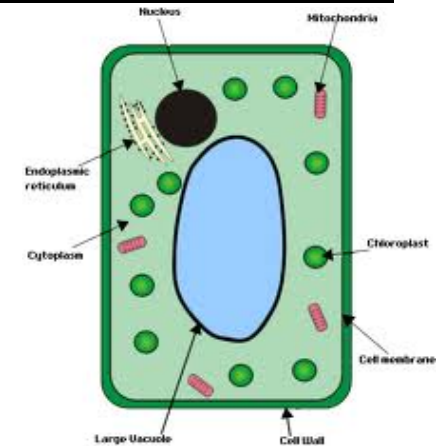
| Cell Part | Function/Job |
|-----------|--------------|
| 1. | |
| 2. | |
| 3. | |

Complete the Chart

| | <u>Cell Wall</u> | <u>Cell Membrane</u> |
|---|-----------------------------|---------------------------------|
| Cell Type/ Location (plant, animal, both) | | |
| Structure (what it's like) | | |
| Function (what it does) | | |

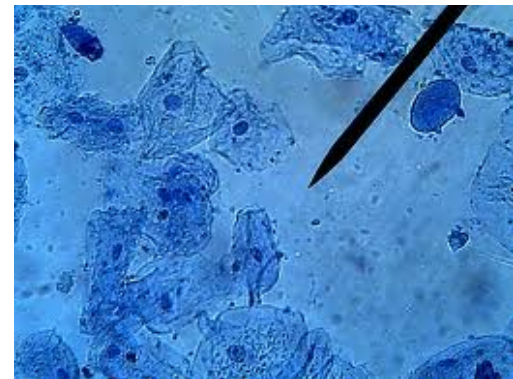
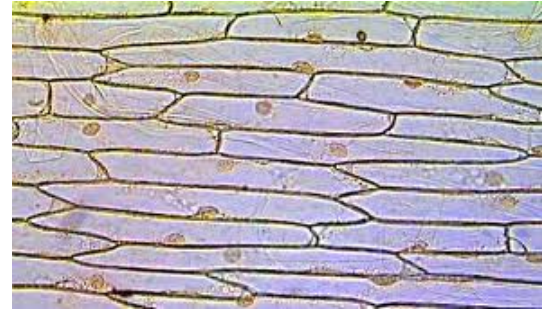
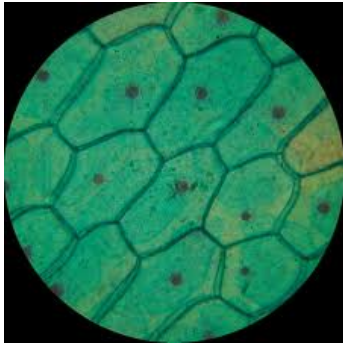
Plant or Animal Cells?

➤ **How do you know?**
(What is there?)
(What is not there?)



Plant Cells or Animal Cells

How do you know?



Cell Division

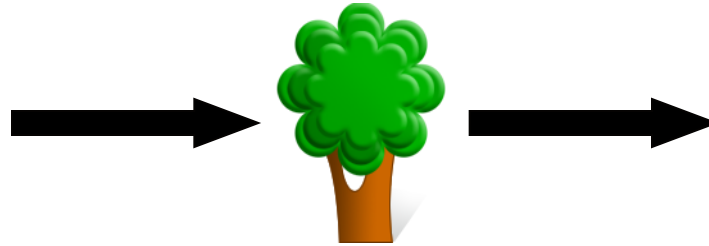
- Give two reasons that cells need to divide.
 - 1.
 - 2.
- Are the cells formed identical or different? (circle one)

P-R “Quick Check”

GOES IN

Photosynthesis

COMES OUT

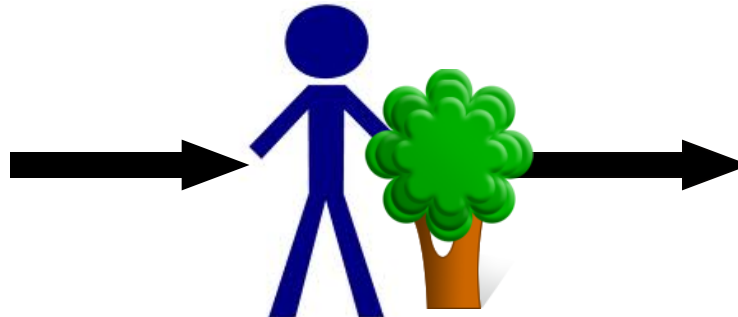


Cell Part:

GOES IN

Respiration

COMES OUT



Cell Part:

Additional Study Questions

Photosynthesis

1. What is the main purpose (product) of photosynthesis?
2. What type of cells do photosynthesis?
3. Where in the cell does photosynthesis happen? (What cell part?)

Additional Study Questions

Respiration

4. What is the main purpose (product) of respiration?

5. What type of cells do respiration?

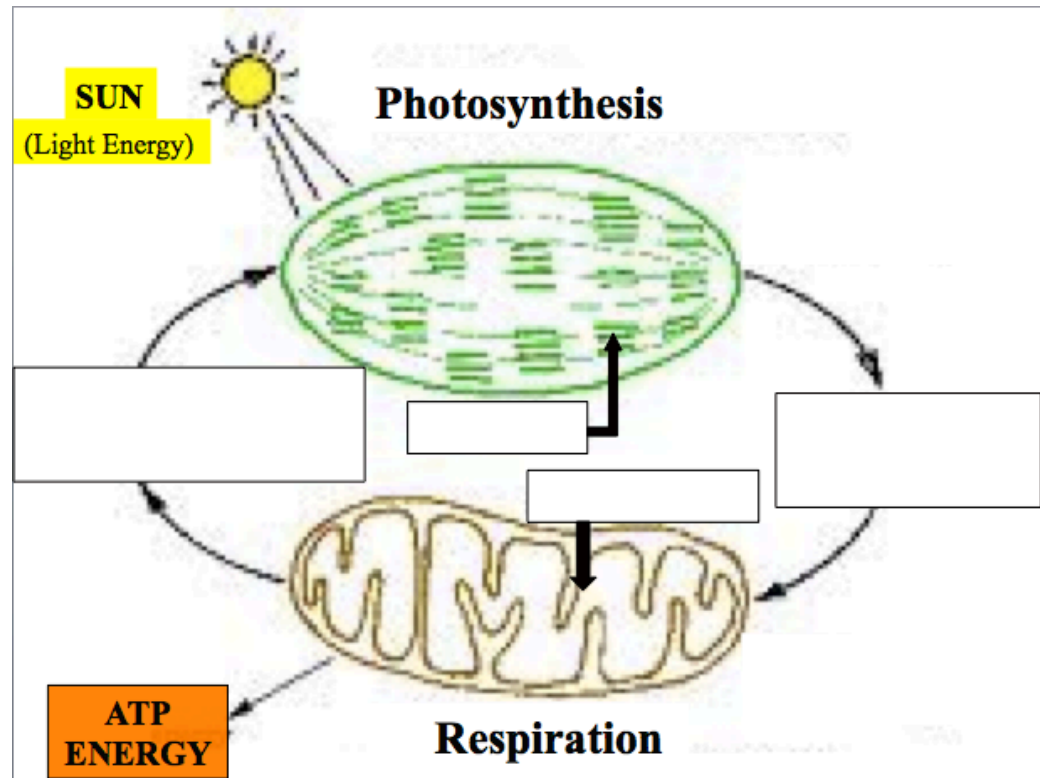
6. Where in the cell does respiration take place? (What cell part?)

Additional Study Questions

Photosynthesis & Respiration

7. What is the relationship between photosynthesis and respiration?
(Hint: Fill in the picture to help you see the relationship, **then describe it in words**)

Answer:





Vocabulary

Organism: a _____

Organism is simply a science word we use to describe a _____. An organism could be a plant, animal or bacteria - ANYTHING that is _____!

